

NAME \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_

Chapter 2 – Section 2

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## THE SUN

I. Sun Facts

- A. The sun's gravity is so strong because its \_\_\_\_\_ is so great.
- B. \_\_\_\_\_% of the mass of our Solar System is contained in the sun
- C. The sun has \_\_\_\_\_ solid surface

II. The Sun's Interior

- A. The sun's energy comes from \_\_\_\_\_
- B. Core - \_\_\_\_\_
  - 1. reaches temps of \_\_\_\_\_
  - 2. Turns \_\_\_\_\_ atoms into helium atoms
  - 3. Lifetime is \_\_\_\_\_ years (\_\_\_\_\_ billion years used already)

III. The Sun's Atmosphere

- A. Photosphere - \_\_\_\_\_
  - 1. \_\_\_\_\_ means light; this is the light that reaches Earth
- B. Chromosphere - \_\_\_\_\_
  - 1. gives off a reddish glow
- C. Corona - \_\_\_\_\_
  - 1. Visible during \_\_\_\_\_; \_\_\_\_\_ halo around the sun
  - 2. Solar Wind - \_\_\_\_\_  
\_\_\_\_\_
  - 3. Causes \_\_\_\_\_ at the north and south poles

IV. Features of the Sun

- A. Sunspots – \_\_\_\_\_  
\_\_\_\_\_

**B. Prominences -** \_\_\_\_\_

\_\_\_\_\_

**C. Solar Flares -** \_\_\_\_\_

\_\_\_\_\_

1. \_\_\_\_\_ amounts of energy released
2. can greatly \_\_\_\_\_ the solar wind causing  
\_\_\_\_\_ storms on Earth

**Questions. Answer in complete sentences:**

- 1) How is energy produced in the sun's core?
- 2) Name the layers of the sun's atmosphere.
- 3) What is solar wind?
- 4) Describe three surface features found on or above the surface of the sun.
- 5) Why do sunspots look darker than the rest of the sun's photosphere?
- 6) How does the number of sunspots change over time?